

Daniel Tran

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EDUCATION

George Mason University, Fairfax VA

Bachelor of Science: Computer Science

May 2024

WORK EXPERIENCE

Software Engineer | United States Central Command (CENTCOM)

Aug 2023 – May 2024

- Designed, developed, and implemented an analyzing tool to scrape through news websites to produce an analysis product. The analyzing tool is built with **Open AI** and **Python** for the analyzing engine along with **jQuery**, **JavaScript**, and **CSS** to render reports to the CENTCOM analysts
- Assisted a team of 15 developers, business analysts, and testers and utilized **Asana** for agile project management and development to prioritize backlogs and sprint planning
- Translated and interpreted functional requirements into programmable code
- Guided coworkers in solving programming problems

Freelance Web Developer

Jun 2022 – Aug 2022

- Developed a J2EE application for the Toastmasters nonprofit to manage trainee information, class schedules and communication history on their website
- Created a **Microsoft SQL** database to support the application
- Developed REST APIs using **Maven** and **Spring Boot** to perform CRUD operations
- Designed an Angular front end to manage trainees' information, class registrations, and communications

PROJECTS

Android Chat Application | Mobile Application Development

March 2024 - May 2024

- Developed an Android Application with **Firestore Realtime Database**, **Firestore Auth**, and **Android Studio** allowing users to log in and chat
- Configured **Firestore** to ensure optimal user interactions within the application
- Utilized the Android emulator to simulate the user experience for creating an account, logging in and messaging
- Refactored existing code to ensure compatibility with the latest Android Studio and Firestore versions
- Tested and optimized system, network and data functionality for improved performance

Shareable Planner | Software Engineering

December 2022 - March 2023

- Developed a **RESTFUL** web service with **Maven**, **Spring Boot**, and **Spring JPA** framework connecting to **Microsoft SQL** that allows users to log in, schedule and share events via their calendars
- Developed a REST API which returns JSON data to a React front-end to reflect the database
- Wrote **JUnit** to verify code functionality and utilized **Postman** to test the functionality of HTTP requests/responses

Food Delivery Management Simulator | Computer Systems and Programming

December 2021

- Created an application using queues and linked lists to manage food orders from multiple locations in **C**
- Debugged program using **Valgrind** and **GNU Debugger** to analyze memory allocation preventing memory leaks
- Applied **vi** commands to save, insert, and delete code for source and header files on the command prompt
- Utilized **makefile** to compile +200 lines of code from multiple source and header files to make one executable file

Cryptography Calculator | Personal Work

July 2021 - August

2021

- Developed an application in **Python** which encrypts user data with **cryptographic** algorithms such as AES and DES
- Followed **Agile** framework and participated in weekly **scrum** meetings
- Utilized **GIT software** to source control a codebase of +2,250 lines of code with 5 developers
- Used **unit testing** to verify expected results and added documentation for user readability

TECHNICAL SKILLS (Intermediate)

- **Programming Languages:** Python, Java, C, HTML, JavaScript, CSS, XML
- **Software/Frameworks:** Spring Boot, Spring MVC, Maven, GIT, Postman, JUnit, jQuery, Docker, Asana, Hibernate
- **Database:** Microsoft SQL, MySQL, H2
- **IDE:** Eclipse, Spring Tool Suite, Android Studio

LEADERSHIP

Scouts of America

Eagle Scouts

Falls Church, VA

Earned on September 2019